

10/679,902

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FILE 'HOME' ENTERED AT 14:27:37 ON 09 NOV 2004

=> file reg

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:27:47 ON 09 NOV 2004
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 8 NOV 2004 HIGHEST RN 777024-10-9
DICTIONARY FILE UPDATES: 8 NOV 2004 HIGHEST RN 777024-10-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See **HELP CROSSOVER** for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

Uploading C:\Program Files\Stnexp\Queries\10679902.str

The diagram illustrates a chemical structure on the left and a corresponding numbered tree diagram on the right.

Chemical Structure:

- A central carbon atom (C) is bonded to four hydrogen atoms (H).
- One of the hydrogen atoms is part of a methyl group, which is further bonded to two hydrogen atoms (H).
- The central carbon (C) is also bonded to a nitrogen atom (N).
- The nitrogen atom (N) is bonded to a sulfur atom (S).
- The sulfur atom (S) is bonded to two oxygen atoms (O).
- One oxygen atom (O) is bonded to a cyano group (Cy).
- The other oxygen atom (O) is bonded to a group labeled G1.

Numbered Tree Diagram:

- The root node is 11.
- Node 11 branches into nodes 10 and 12.
- Node 10 branches into nodes 17 and 16.
- Node 16 branches into nodes 4 and 19.
- Node 4 branches into nodes 3 and 5.
- Node 3 branches into nodes 9 and 2.
- Node 5 branches into nodes 18 and 6.
- Node 2 branches into nodes 1, 20, and 22.
- Node 6 branches into nodes 7 and 23.
- Node 1 branches into nodes 21 and 22.
- Node 7 branches into node 13.
- Node 15 is a terminal node.

```

chain nodes :
7 8 9 10 11 12 13 15 16 17 18 19 20 21 22 23
ring nodes :
1 2 3 4 5 6
chain bonds :
1-22 1-23 2-20 2-21 3-8 3-9 4-16 4-17 5-18 5-19 6-7 7-13 7-15 8-10
8-11 8-12 .
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
3-8 3-9 6-7 7-13 7-15 8-10 8-11 8-12
exact bonds :
1-2 1-6 1-22 1-23 2-3 2-20 2-21 3-4 4-5 4-16 4-17 5-6 5-18 5-19
isolated ring systems :
containing 1 :

```

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G1:H,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:CLASS
11:CLASS 12:Atom 13:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS

L1 STRUCTURE UPLOADED

=> s 11

SAMPLE SEARCH INITIATED 14:28:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1535 TO ITERATE

65.1% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

4 ANSWERS

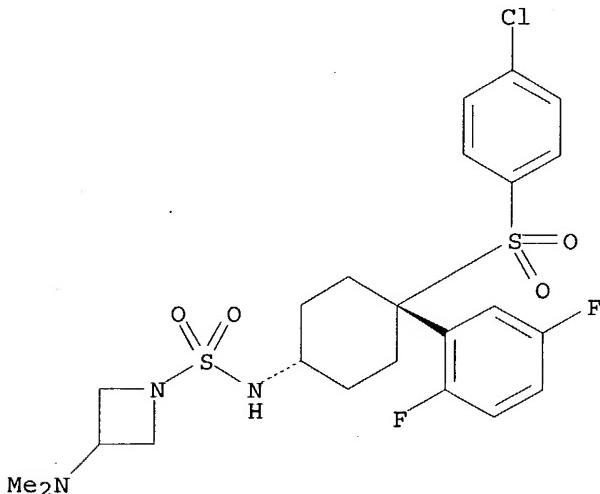
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 28350 TO 33050
PROJECTED ANSWERS: 4 TO 270

L2 4 SEA SSS SAM L1

=> d scan

L2 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-(dimethylamino)- (9CI)
MF C23 H28 Cl F2 N3 O4 S2

Relative stereochemistry.



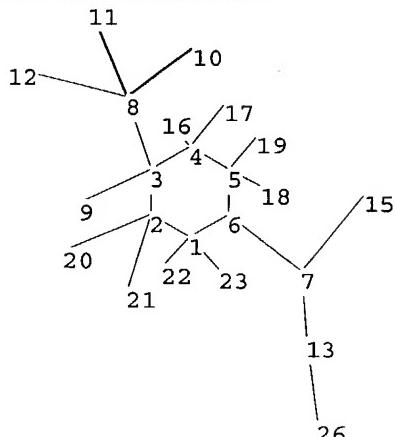
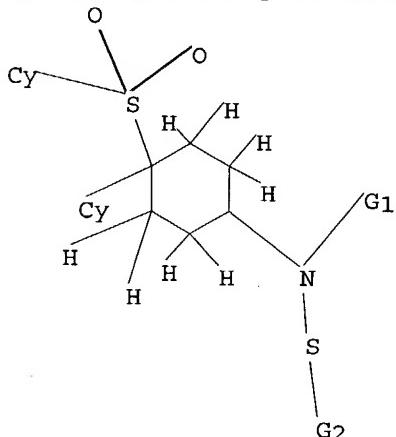
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10/679,902

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):

=>

Uploading C:\Program Files\Stnexp\Queries\106799021.str



chain nodes :

7 8 9 10 11 12 13 15 16 17 18 19 20 21 22 23 26

ring nodes :

1 2 3 4 5 6

chain bonds:

chain bonds :

~~1-22~~ ~~1-23~~ ~~2-20~~
8-11 8-12 13-26

ring bonds :

Ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

exact, non-linear bonds

exact bonus :
1-3 1-6 1-3

1-2 1-6 1-22
isolated ring

Isolated ring systems containing 1, 2

containing 1 :

G1:H,Ak

G2 : Cy, Ak, CF3

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:Atom 10:CLASS

11:CLASS 12:Atom 13:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

20:CLASS 21:CLASS 22:CLASS 23:CLASS 26:CLASS

L3 STRUCTURE UPLOADED

=> s 13

SAMPLE SEARCH INITIATED 14:30:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1534 TO ITERATE

65.2% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

4 ANSWERS

10/679,902

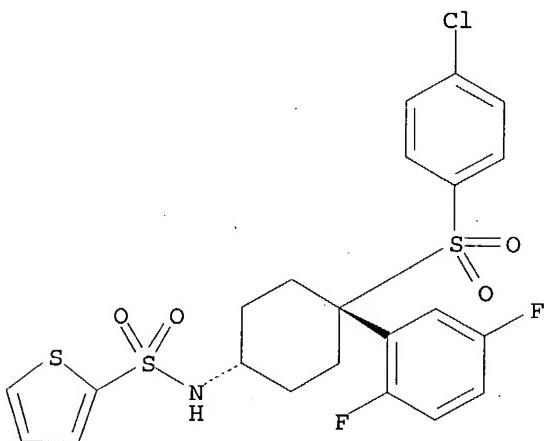
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 28331 TO 33029
PROJECTED ANSWERS: 4 TO 270

L4 4 SEA SSS SAM L3

=> d scan

L4 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Thiophenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI)
MF C22 H20 Cl F2 N O4 S3

Relative stereochemistry.

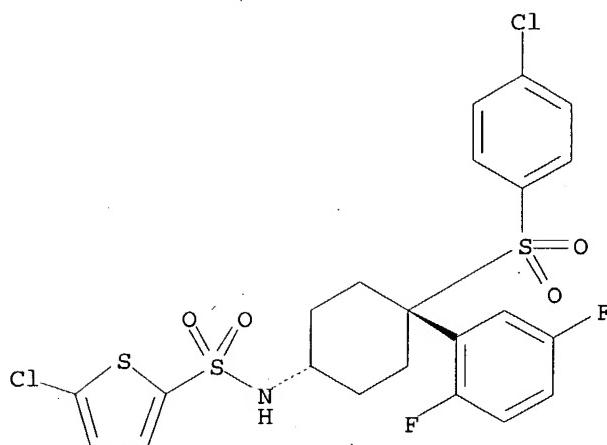


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L4 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 2-Thiophenesulfonamide, 5-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI)
MF C22 H19 Cl2 F2 N O4 S3

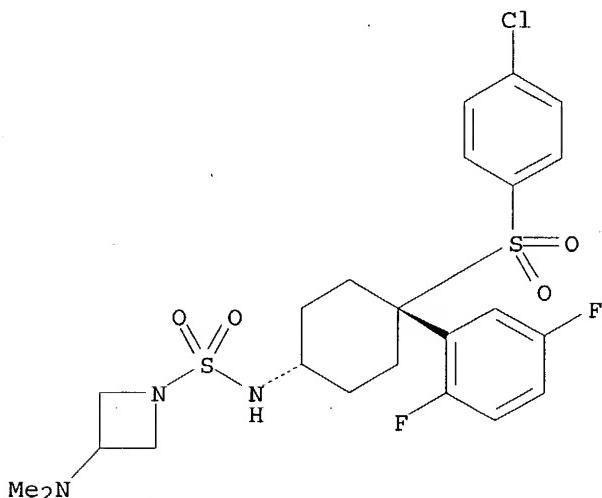
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-(dimethylamino)- (9CI)
MF C23 H28 Cl F2 N3 O4 S2

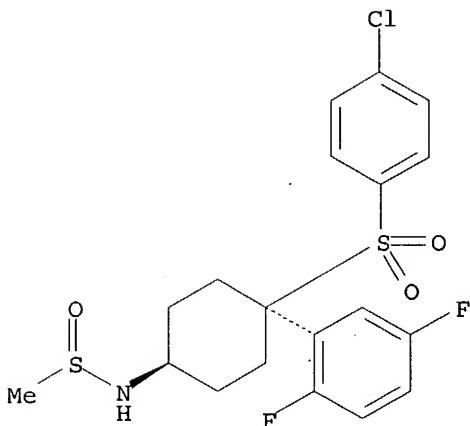
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Methanesulfinamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI)
MF C19 H20 Cl F2 N O3 S2

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s 13 ful
FULL SEARCH INITIATED 14:31:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 31553 TO ITERATE

100.0% PROCESSED 31553 ITERATIONS
SEARCH TIME: 00.00.01

90 ANSWERS

L5 90 SEA SSS FUL L3

=> file caplus		SINCE FILE	TOTAL
COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		157.52	157.73

FILE 'CAPLUS' ENTERED AT 14:31:39 ON 09 NOV 2004
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FILE COVERS 1907 - 9 Nov 2004 VOL 141 ISS 20
FILE LAST UPDATED: 8 Nov 2004 (20041108/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s15

SL5 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (=>).

=> s 15

L6 2 L5

=> d 16 ibib hitstr abs 1-2

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2004:308411 CAPLUS
 DOCUMENT NUMBER: 140:321114
 TITLE: Preparation of aryl (alkylsulfonylamino)cyclohexyl sulfones as γ -secretase inhibitors for treatment of Alzheimer's disease
 INVENTOR(S): Churcher, Ian; Harrison, Timothy; Kerrad, Sonia; Nadin, Alan John; Owens, Andrew Pate; Shaw, Duncan Edward; Thomson, Joanne; Williams, Susannah
 PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK
 SOURCE: PCT Int. Appl., 42 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004031139	A1	20040415	WO 2003-GB4196	20030925
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004121995	A1	20040624	US 2003-679902	20031006
PRIORITY APPLN. INFO.:			GB 2002-23038	A 20021004
OTHER SOURCE(S): MARPAT 140:321114				
IT 677772-40-6P, Methanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide				Priority
677772-76-8P, 2-Methoxy-2-oxoethanesulfonic acid				
N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide				
677772-81-5P, 2-[[cis-4-(4-Chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amino]sulfonyleacetamide 677772-96-2P,				
6-Chloro-3-pyridinesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-98-4P,				
Ethenesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide 677773-00-1P,				
2-(Morpholin-4-yl)ethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-(trifluoromethylbenzenesulfonyl)cyclohexyl]amide 677773-01-2P				
677773-10-3P				

10/679,902

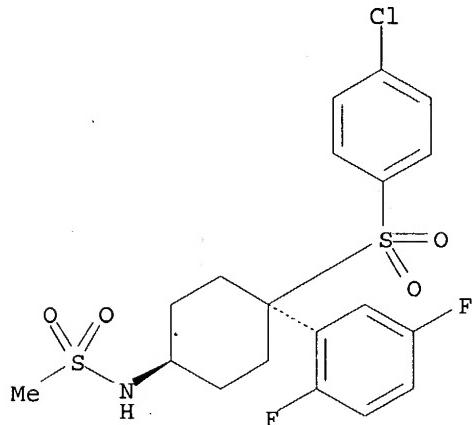
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(γ -secretase inhibitor; preparation of aryl cyclohexyl sulfones as inhibitors of β -amyloid formation for treatment of Alzheimer's disease)

RN 677772-40-6 CAPLUS

CN Methanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

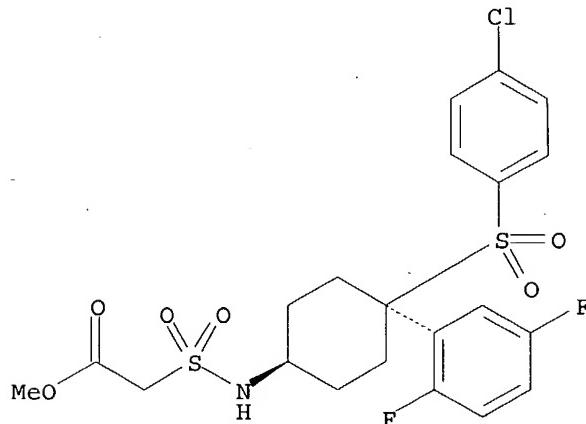
Relative stereochemistry.



RN 677772-76-8 CAPLUS

CN Acetic acid, [[[(cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amino)sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)

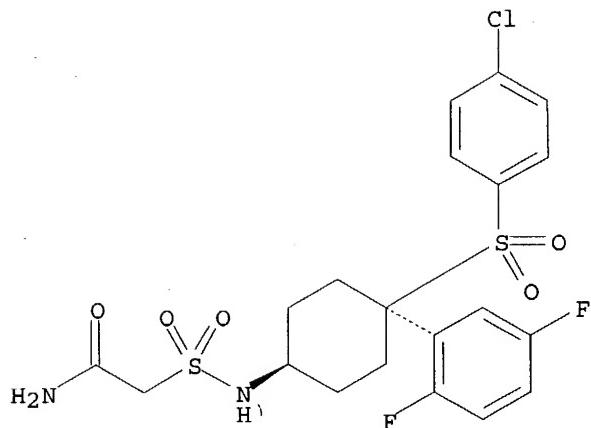
Relative stereochemistry.



RN 677772-81-5 CAPLUS

CN Acetamide, 2-[[[(cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amino)sulfonyl]- (9CI) (CA INDEX NAME)

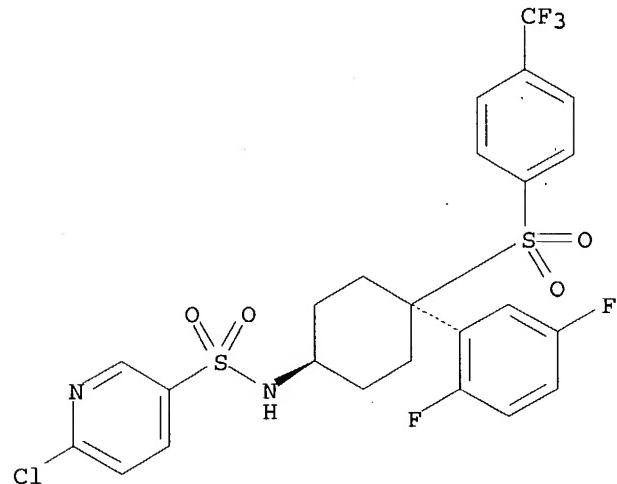
Relative stereochemistry.



RN 677772-96-2 CAPLUS

CN 3-Pyridinesulfonamide, 6-chloro-N-[cis-4-(2,5-difluorophenyl)-4-[(4-(trifluoromethyl)phenyl)sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

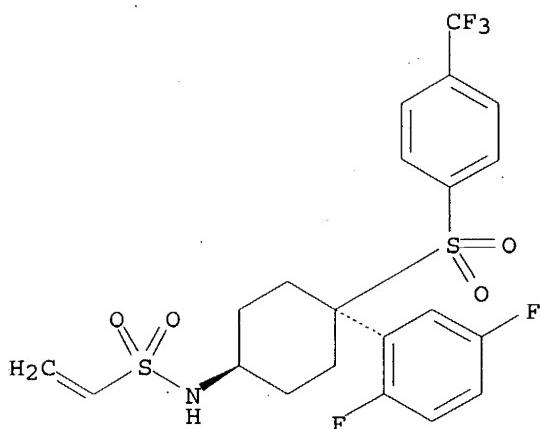
Relative stereochemistry.



RN 677772-98-4 CAPLUS

CN Ethenesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[(4-(trifluoromethyl)phenyl)sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

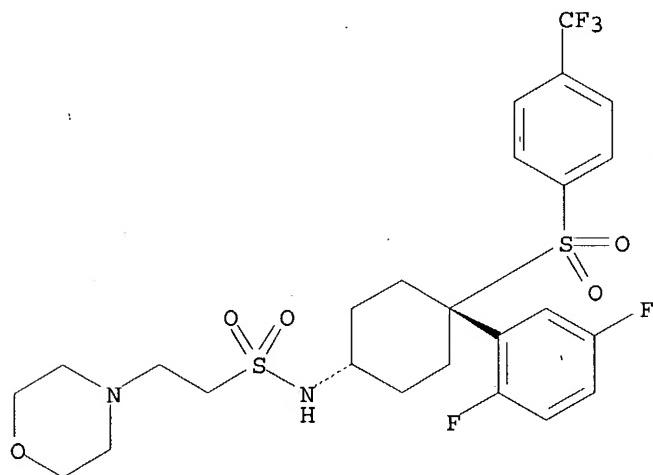
Relative stereochemistry.



RN 677773-00-1 CAPLUS

CN 4-Morpholineethanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[(4-(trifluoromethyl)phenyl)sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

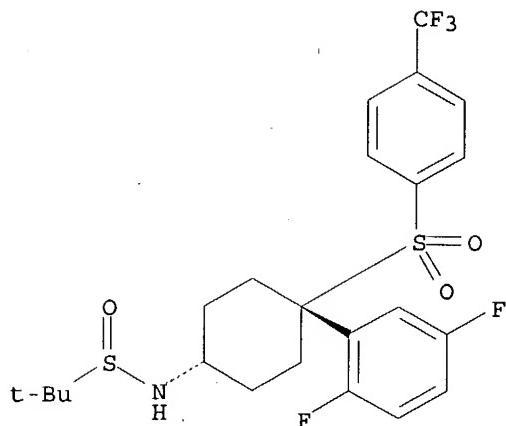
Relative stereochemistry.



RN 677773-01-2 CAPLUS

CN 2-Propanesulfinamide, N-[cis-4-(2,5-difluorophenyl)-4-[(4-(trifluoromethyl)phenyl)sulfonyl]cyclohexyl]-2-methyl- (9CI) (CA INDEX NAME)

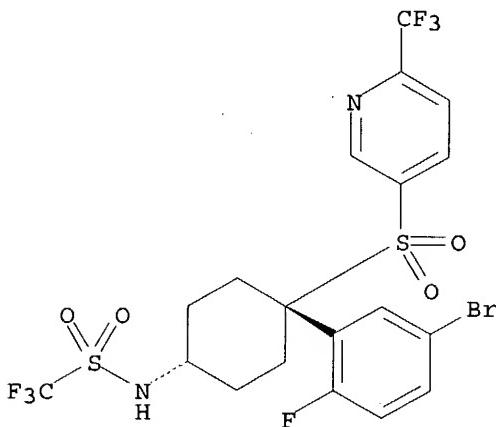
Relative stereochemistry.



RN 677773-10-3 CAPLUS

CN Methanesulfonamide, N-[cis-4-(5-bromo-2-fluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]-1,1,1-trifluoro- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



IT 677772-33-7P 677772-41-7P, 2,2,2-Trifluoroethanesulfonic acid N-[cis-4-(4-chlorobzenenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-42-8P, Propanesulfonic acid N-[cis-4-(4-chlorobzenenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-43-9P, Phenylmethanesulfonic acid N-[cis-4-(4-chlorobzenenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-44-0P, Benzenesulfonic acid N-[cis-4-(4-chlorobzenenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-45-1P, 2-Thiophenesulfonic acid N-[cis-4-(4-chlorobzenenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-46-2P, Ethanesulfonic acid N-[cis-4-(4-chlorobzenenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-47-3P, 5-Chloro-2-thiophenesulfonic acid N-[cis-4-(4-chlorobzenenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-48-4P, Butanesulfonic acid N-[cis-4-(4-chlorobzenenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide 677772-49-5P, 2-Fluorobzenenesulfonic acid N-[cis-4-(4-chlorobzenenesulfonyl)-4-(2,5-

difluorophenyl)cyclohexyl]amide **677772-50-8P**,
 3-Fluorobenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-51-9P**,
 4-Fluorobenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-52-0P**, 2-Pyridinesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-53-1P**,
 5-Methyl-2-thiophenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-54-2P**
677772-55-3P, 4-Chloro-2-thiophenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-56-4P**, 2-(Trifluoromethyl)benzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-57-5P**, Isobutanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-58-6P**, (Methylsulfonyl)methanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-59-7P**, 2-Methylbenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-60-0P**, 4-Methyl-4H-1,2,4-triazole-3-sulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-61-1P** **677772-62-2P**, Chloromethanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-63-3P**, 2-Furansulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-64-4P**, 2-Chlorobenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-65-5P**, 2-Cyanobenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-66-6P** **677772-67-7P**, 3-Thiophenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-68-8P**, 3-Chloropropanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-69-9P**, 1-Methyl-1H-tetrazole-5-sulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-70-2P**, 1,2,4-Triazole-3-sulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-71-3P**, 3-Chloro-2-thiophenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-72-4P**, 1-Methyl-5-imidazolesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-73-5P**, 1-Methyl-4-imidazolesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-74-6P**, 1-Methyl-2-imidazolesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-75-7P**, 2-Bromobenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-77-9P**, 3-Bromo-2-thiophenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-78-0P**, 4-Bromo-2-thiophenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-79-1P**, 5-Chloro-2-methoxybenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-80-4P**, 2-Methoxybenzenesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-82-6P**, 2-Hydroxyethanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-83-7P**, Cyanomethanesulfonic acid N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-84-8P** **677772-85-9P**, Methanesulfonic acid

N-[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]-N-methylamide **677772-86-0P**, Methanesulfonic acid
 N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-87-1P**, 2-Furansulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-88-2P**, Ethanesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-89-3P**, (Methylsulfonyl)methanesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-90-6P**, 1-Methyl-4-imidazolesulfonic acid
 N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-91-7P**
677772-92-8P, 2-Pyridinesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-93-9P**, 5-Chloro-2-thiophenesulfonic acid
 N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-94-0P**, Propanesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-95-1P**, 2-Thiophenesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-97-3P**,
 3-Thiophenesulfonic acid N-[cis-4-[4-(trifluoromethyl)benzenesulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amide **677772-99-5P**
677773-02-3P, 1,1-Dimethylethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-(4-trifluoromethylbenzenesulfonyl)cyclohexyl]amide
677773-03-4P, 2-(Pyrrolidin-1-yl)ethanesulfonic acid
 N-[cis-4-(2,5-difluorophenyl)-4-(4-trifluoromethylbenzenesulfonyl)cyclohexyl]amide **677773-04-5P**, Methanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl)cyclohexyl]amide **677773-05-6P**, 2-Thiophenesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl)cyclohexyl]amide **677773-06-7P** **677773-07-8P**, Propanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl)cyclohexyl]amide **677773-08-9P**, 1-Chloro-1-methylethanesulfonic acid N-[cis-4-(2,5-difluorophenyl)-4-[(6-trifluoromethylpyridin-3-yl)sulfonyl)cyclohexyl]amide **677773-09-0P**
677773-11-4P **677773-12-5P** **677773-13-6P**
677773-14-7P

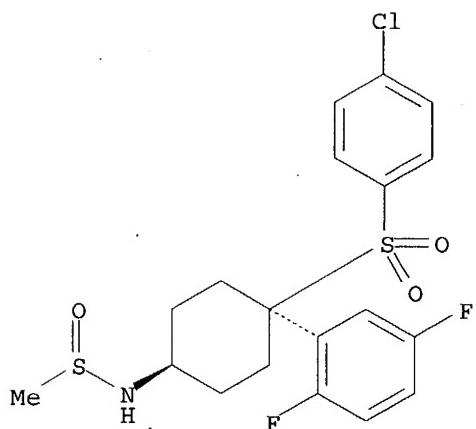
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(γ -secretase inhibitor; preparation of aryl cyclohexyl sulfones as inhibitors of β -amyloid formation for treatment of Alzheimer's disease)

RN **677772-33-7 CAPLUS**

CN Methanesulfinamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

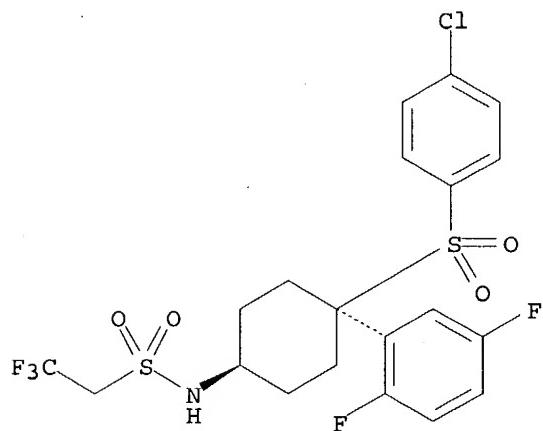
Relative stereochemistry.



RN 677772-41-7 CAPLUS

CN Ethanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

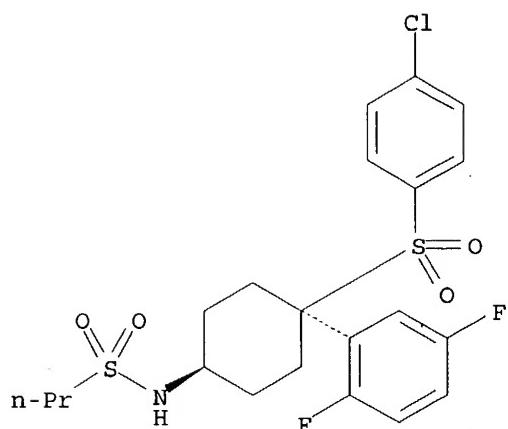
Relative stereochemistry.



RN 677772-42-8 CAPLUS

CN 1-Propanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

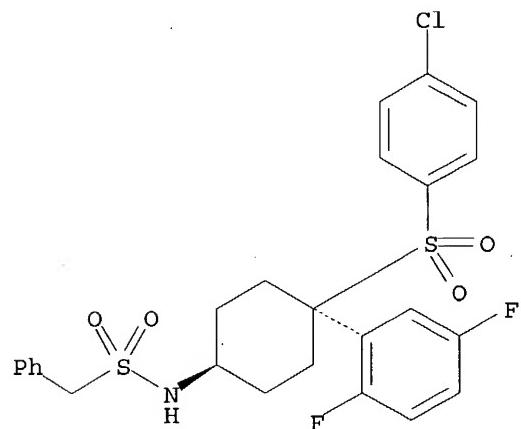
Relative stereochemistry.



RN 677772-43-9 CAPLUS

CN Benzenemethanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

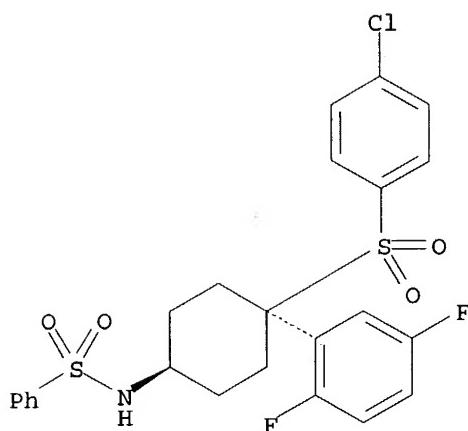
Relative stereochemistry.



RN 677772-44-0 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

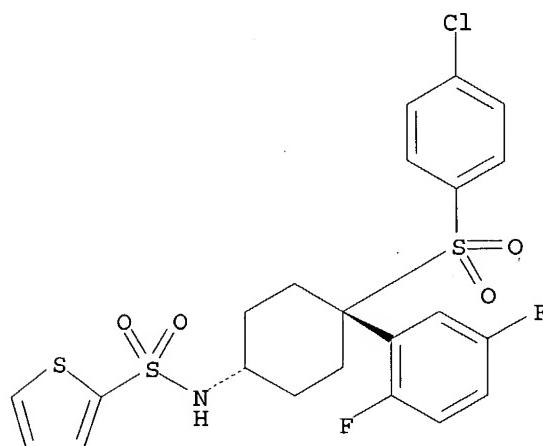
Relative stereochemistry.



RN 677772-45-1 CAPLUS

CN 2-Thiophenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

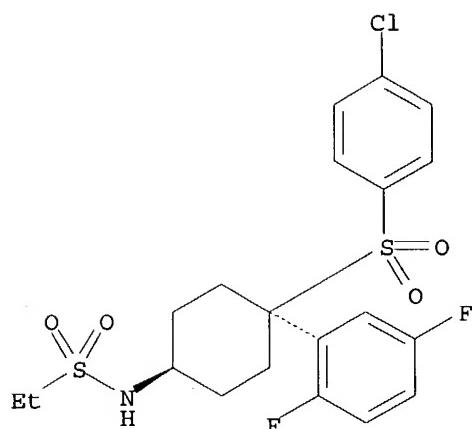
Relative stereochemistry.



RN 677772-46-2 CAPLUS

CN Ethanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

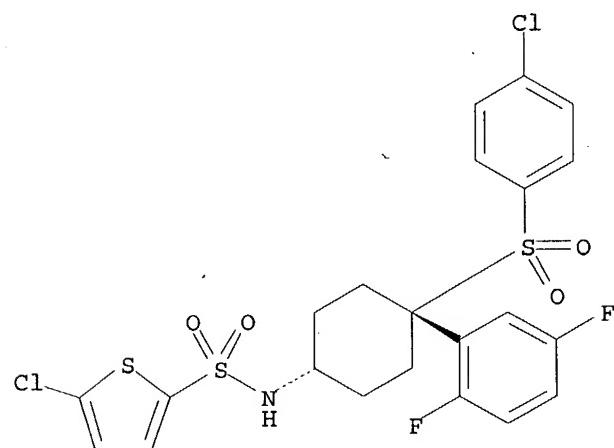
Relative stereochemistry.



RN 677772-47-3 CAPLUS

CN 2-Thiophenesulfonamide, 5-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

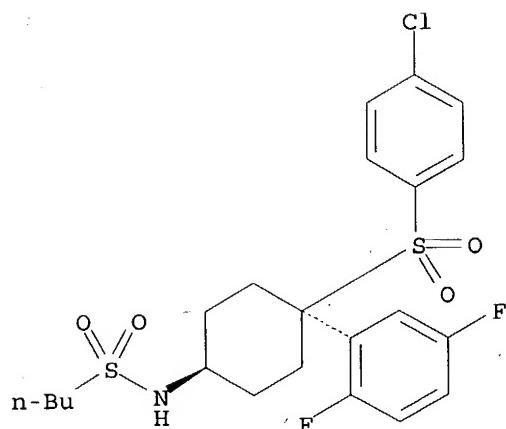
Relative stereochemistry.



RN 677772-48-4 CAPLUS

CN 1-Butanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

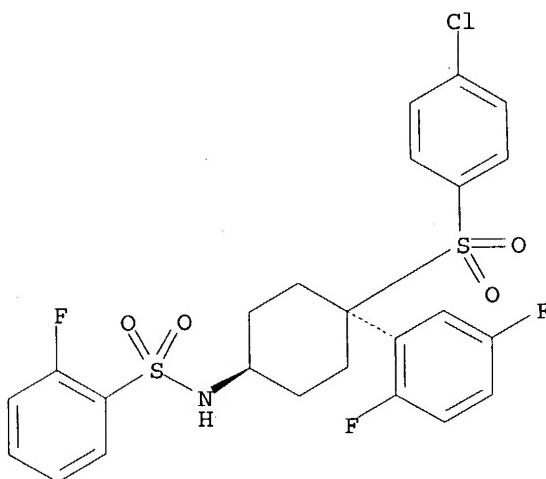
Relative stereochemistry.



RN 677772-49-5 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-fluoro- (9CI) (CA INDEX NAME)

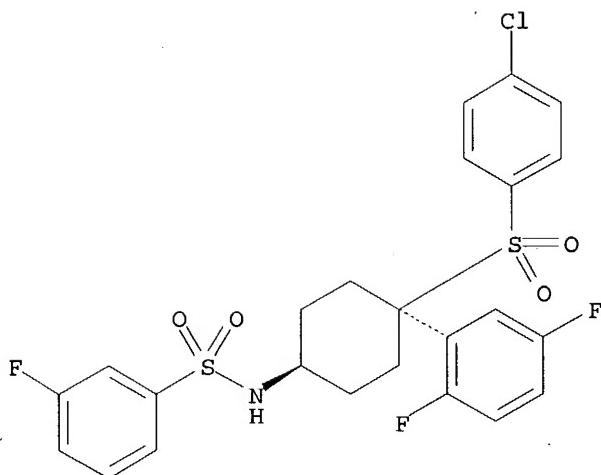
Relative stereochemistry.



RN 677772-50-8 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-fluoro- (9CI) (CA INDEX NAME)

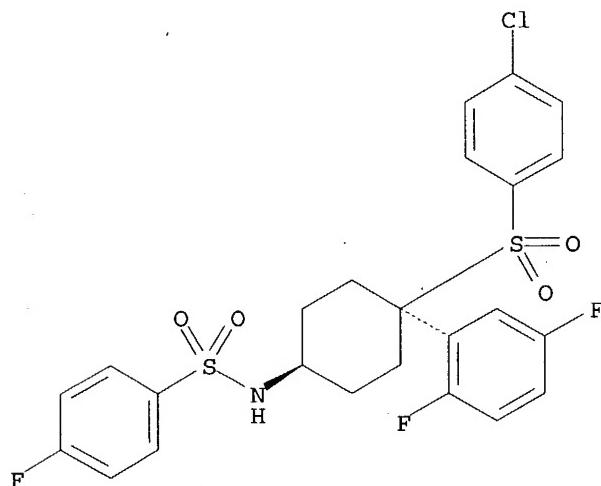
Relative stereochemistry.



RN 677772-51-9 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-4-fluoro- (9CI) (CA INDEX NAME)

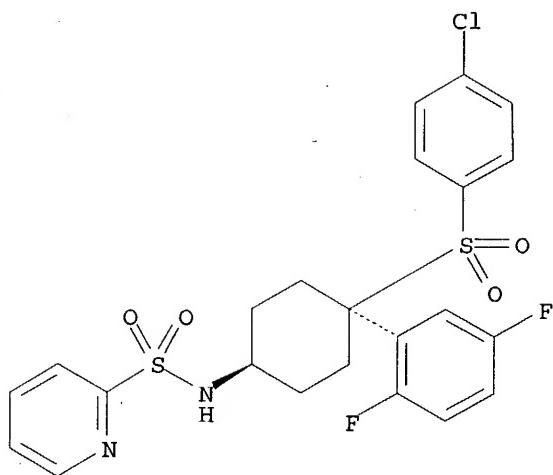
Relative stereochemistry.



RN 677772-52-0 CAPLUS

CN 2-Pyridinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

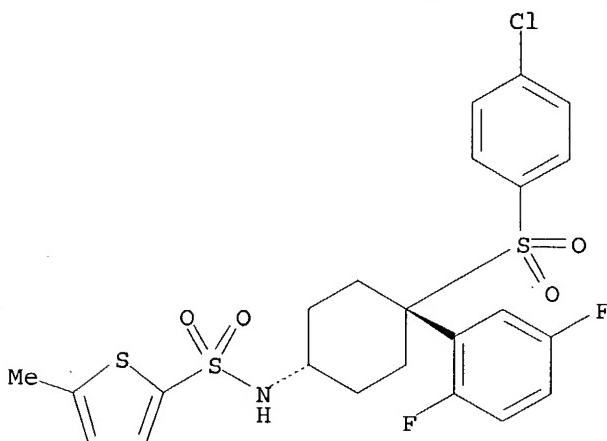
Relative stereochemistry.



RN 677772-53-1 CAPLUS

CN 2-Thiophenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

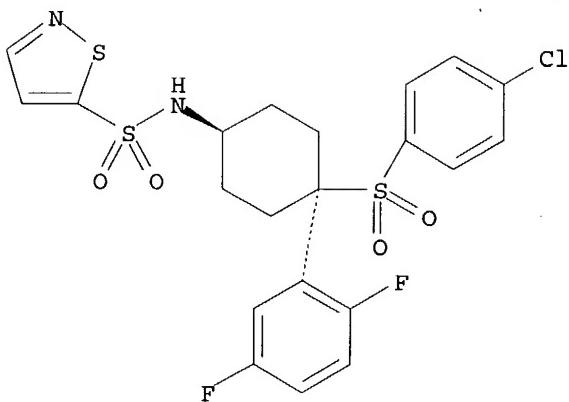
Relative stereochemistry.



RN 677772-54-2 CAPLUS

CN 5-Isothiazolesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

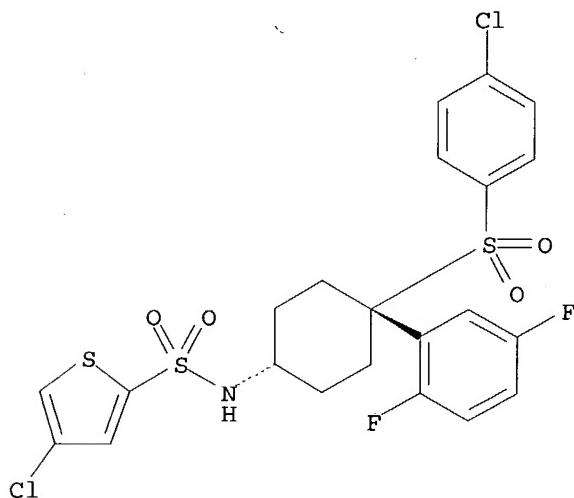
Relative stereochemistry.



RN 677772-55-3 CAPLUS

CN 2-Thiophenesulfonamide, 4-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

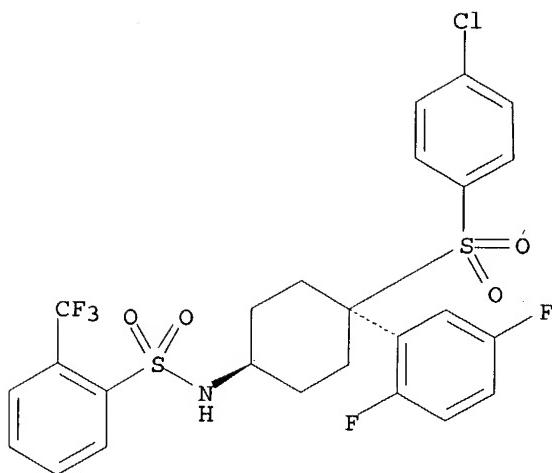
Relative stereochemistry:



RN 677772-56-4 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

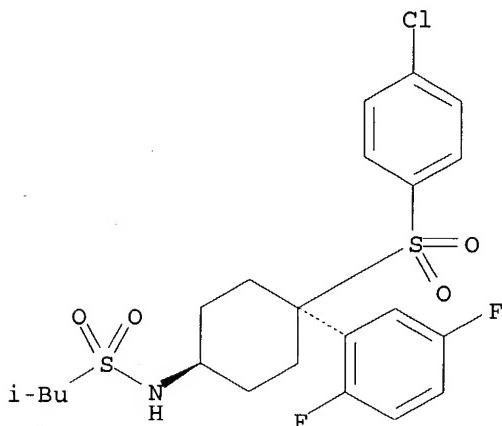
Relative stereochemistry.



RN 677772-57-5 CAPLUS

CN 1-Propanesulfonamide, N-[*cis*-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-methyl- (9CI) (CA INDEX NAME)

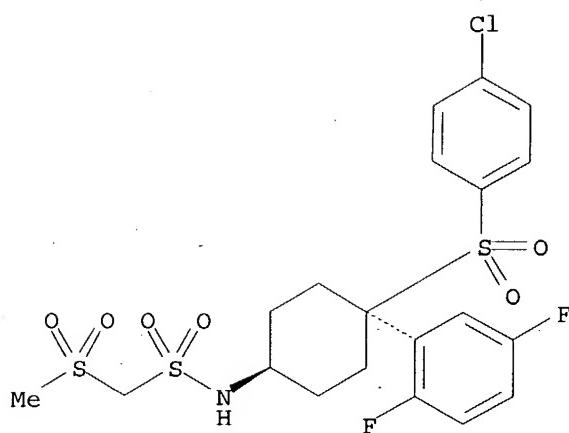
Relative stereochemistry.



RN 677772-58-6 CAPLUS

CN Methanesulfonamide, N-[*cis*-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1-(methylsulfonyl)- (9CI) (CA INDEX NAME)

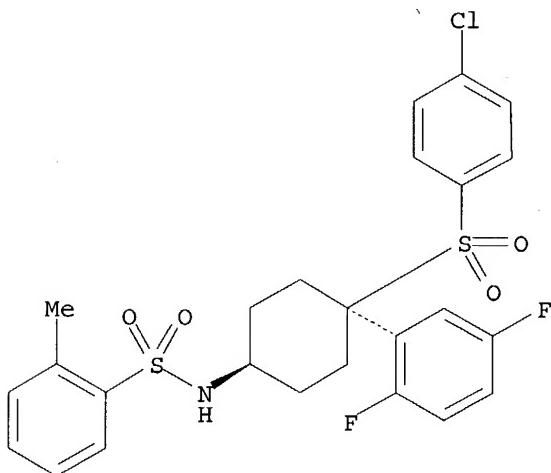
Relative stereochemistry.



RN 677772-59-7 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-methyl- (9CI) (CA INDEX NAME)

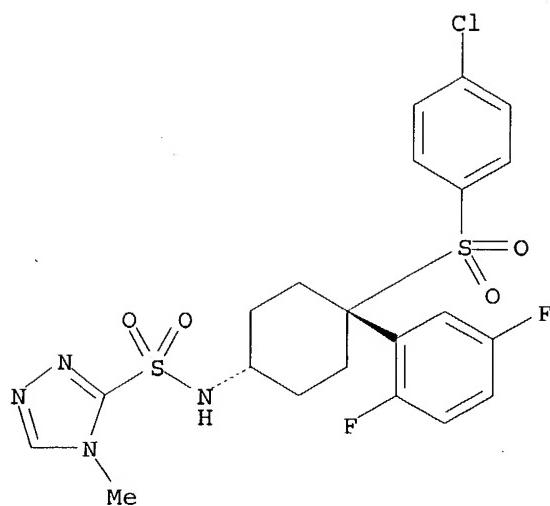
Relative stereochemistry.



RN 677772-60-0 CAPLUS

CN 4H-1,2,4-Triazole-3-sulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-4-methyl- (9CI) (CA INDEX NAME)

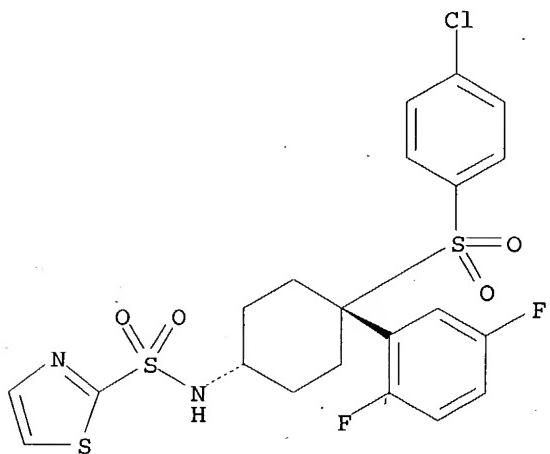
Relative stereochemistry.



RN 677772-61-1 CAPLUS

CN 2-Thiazolesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

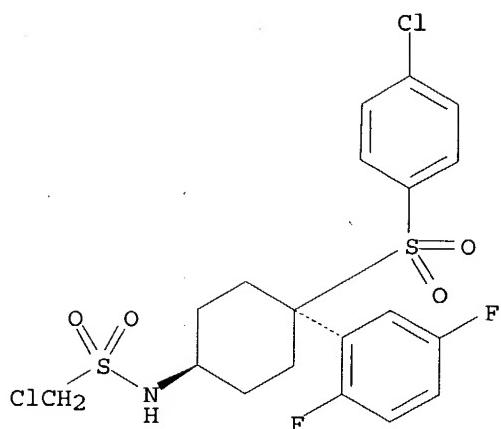
Relative stereochemistry.



RN 677772-62-2 CAPLUS

CN Methanesulfonamide, 1-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

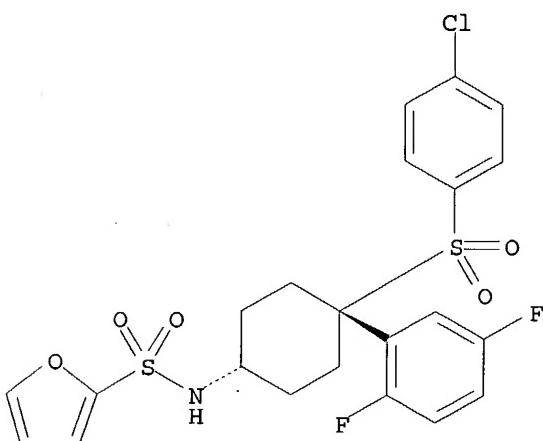
Relative stereochemistry.



RN 677772-63-3 CAPLUS

CN 2-Furansulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

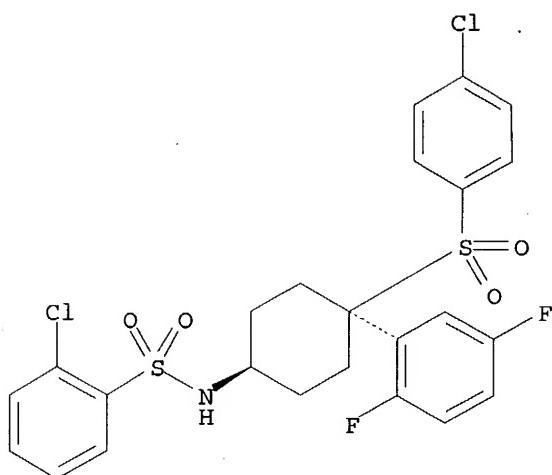
Relative stereochemistry.



RN 677772-64-4 CAPLUS

CN Benzenesulfonamide, 2-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

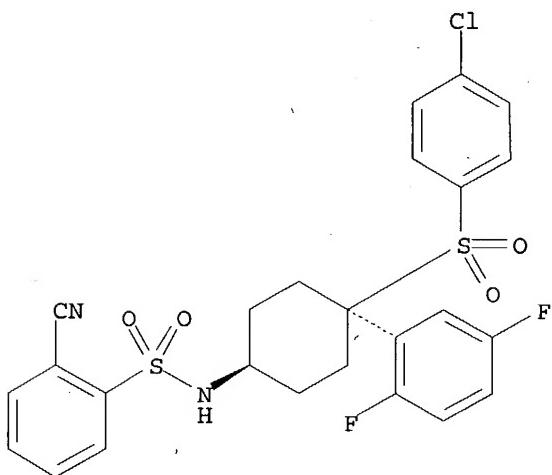
Relative stereochemistry.



RN 677772-65-5 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-cyano- (9CI) (CA INDEX NAME)

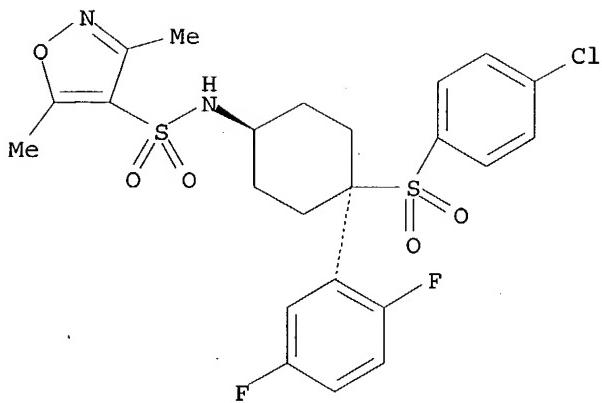
Relative stereochemistry.



RN 677772-66-6 CAPLUS

CN 4-Isoxazolesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3,5-dimethyl- (9CI) (CA INDEX NAME)

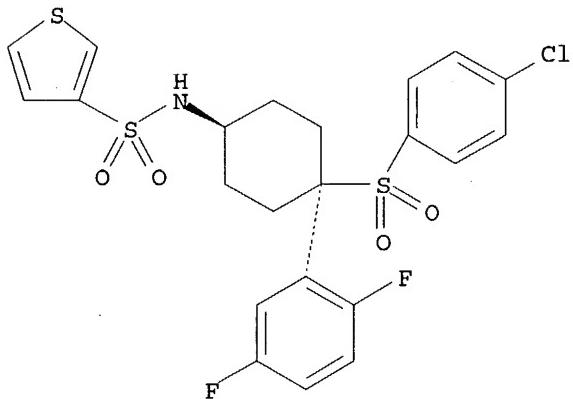
Relative stereochemistry.



RN 677772-67-7 CAPLUS

CN 3-Thiophenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

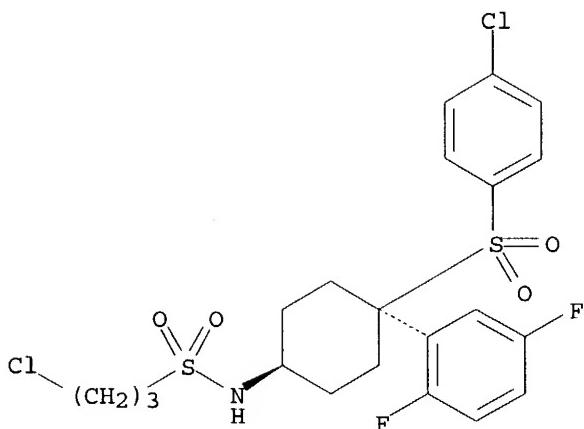
Relative stereochemistry.



RN 677772-68-8 CAPLUS

CN 1-Propanesulfonamide, 3-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

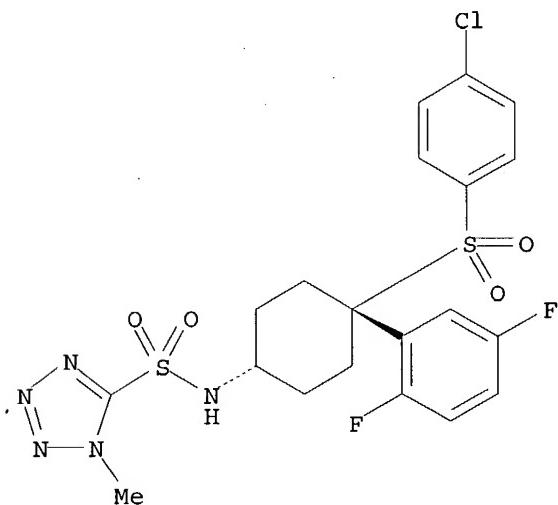
Relative stereochemistry.



RN 677772-69-9 CAPLUS

CN 1H-Tetrazole-5-sulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1-methyl- (9CI) (CA INDEX NAME)

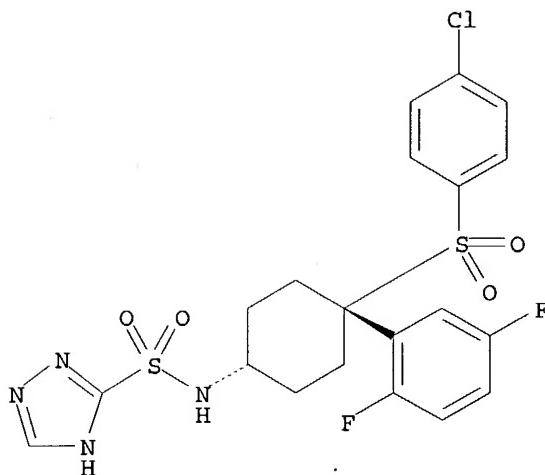
Relative stereochemistry.



RN 677772-70-2 CAPLUS

CN 1H-1,2,4-Triazole-3-sulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

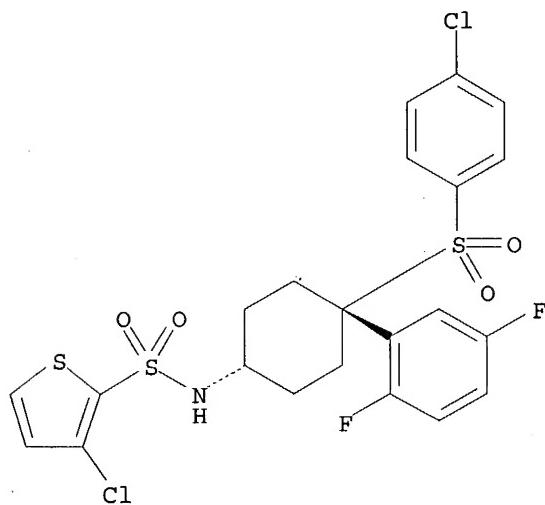
Relative stereochemistry.



RN 67772-71-3 CAPLUS

CN 2-Thiophenesulfonamide, 3-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

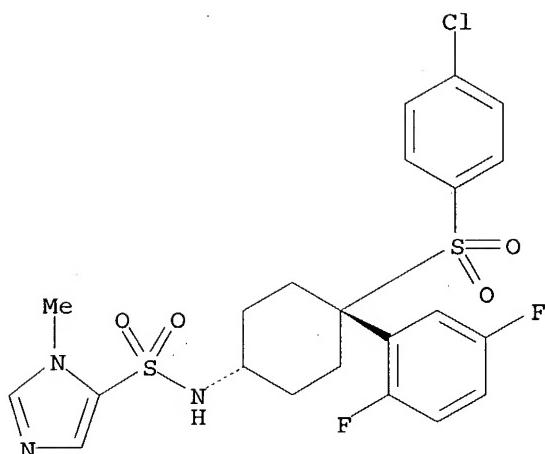
Relative stereochemistry.



RN 67772-72-4 CAPLUS

CN 1H-Imidazole-5-sulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1-methyl- (9CI) (CA INDEX NAME)

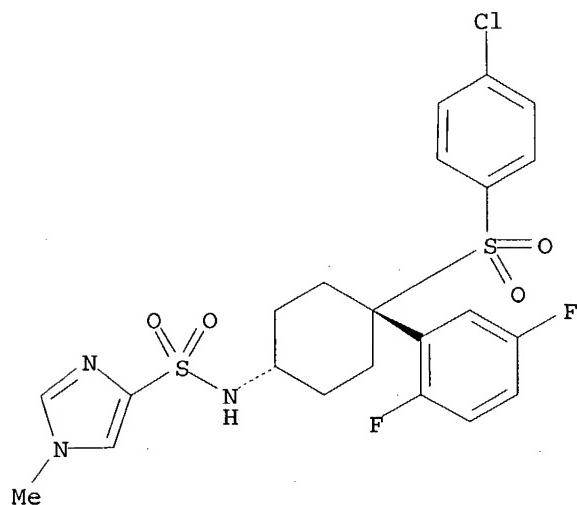
Relative stereochemistry.



RN 677772-73-5 CAPLUS

CN 1H-Imidazole-4-sulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1-methyl- (9CI) (CA INDEX NAME)

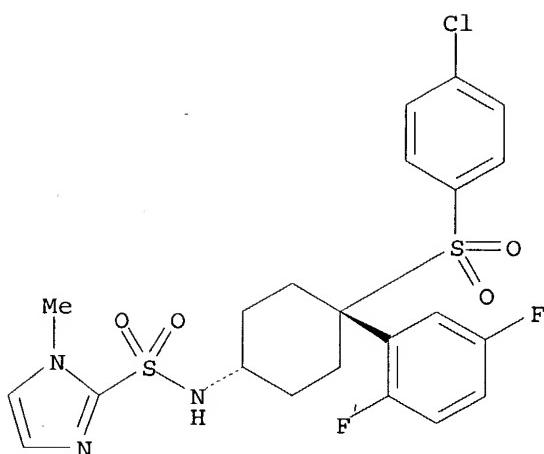
Relative stereochemistry.



RN 677772-74-6 CAPLUS

CN 1H-Imidazole-2-sulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1-methyl- (9CI) (CA INDEX NAME)

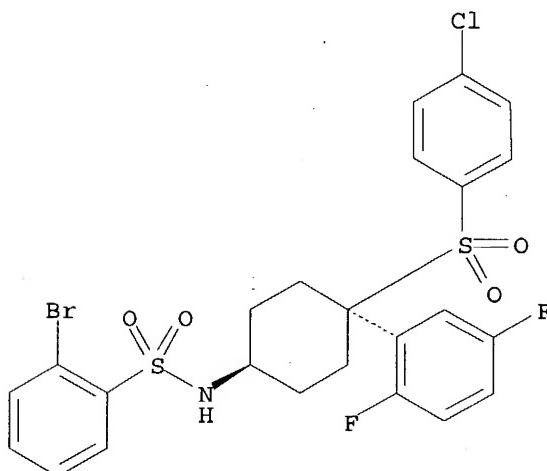
Relative stereochemistry.



RN 677772-75-7 CAPLUS

CN Benzenesulfonamide, 2-bromo-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

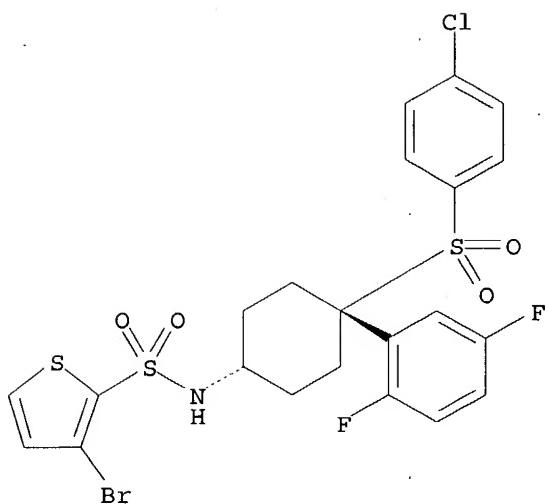
Relative stereochemistry.



RN 677772-77-9 CAPLUS

CN 2-Thiophenesulfonamide, 3-bromo-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

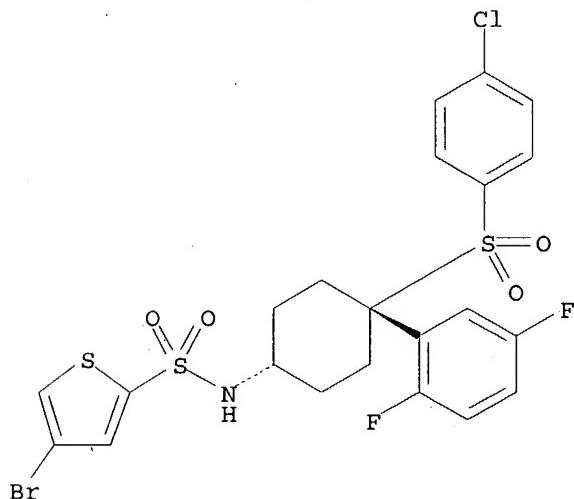
Relative stereochemistry.



RN 677772-78-0 CAPLUS

CN 2-Thiophenesulfonamide, 4-bromo-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

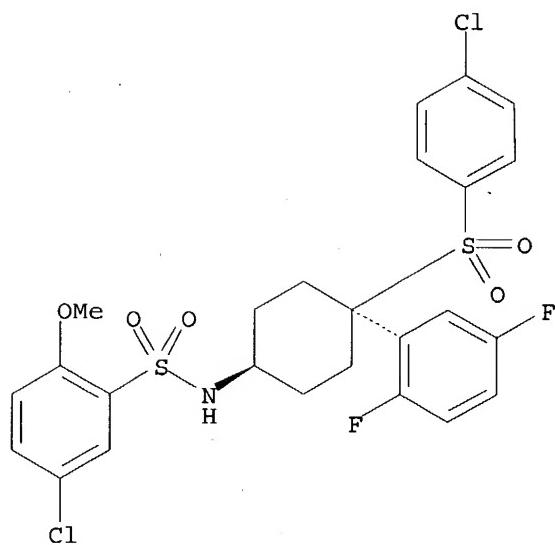
Relative stereochemistry.



RN 677772-79-1 CAPLUS

CN Benzenesulfonamide, 5-chloro-N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-methoxy- (9CI) (CA INDEX NAME)

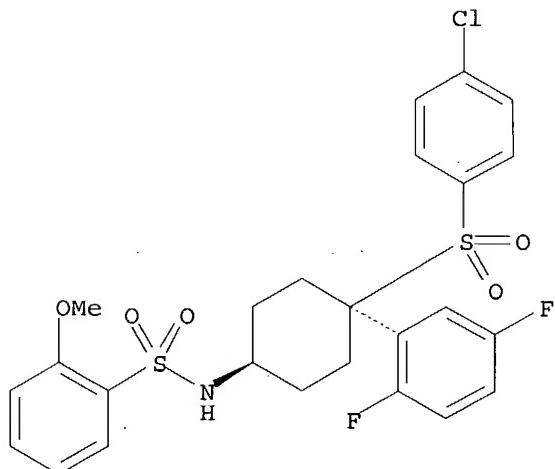
Relative stereochemistry.



RN 677772-80-4 CAPLUS

CN Benzenesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-methoxy- (9CI) (CA INDEX NAME)

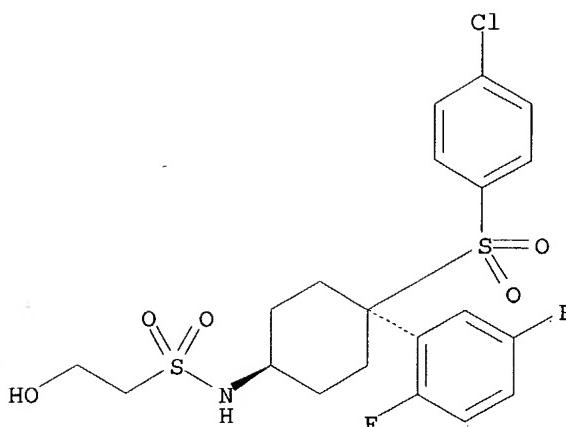
Relative stereochemistry.



RN 677772-82-6 CAPLUS

CN Ethanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-2-hydroxy- (9CI) (CA INDEX NAME)

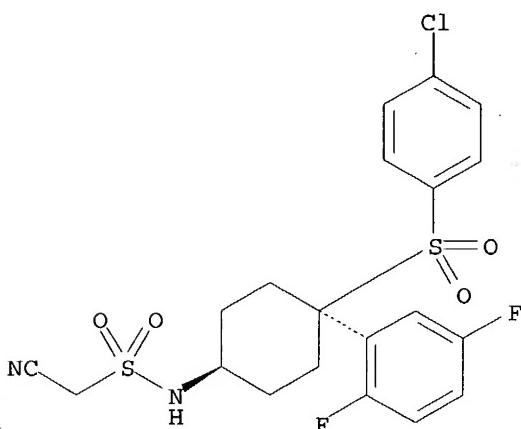
Relative stereochemistry.



RN 677772-83-7 CAPLUS

CN Methanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1-cyano- (9CI) (CA INDEX NAME)

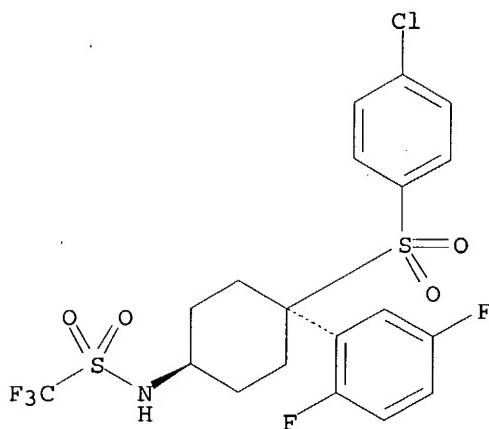
Relative stereochemistry.



RN 677772-84-8 CAPLUS

CN Methanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-1,1,1-trifluoro- (9CI) (CA INDEX NAME)

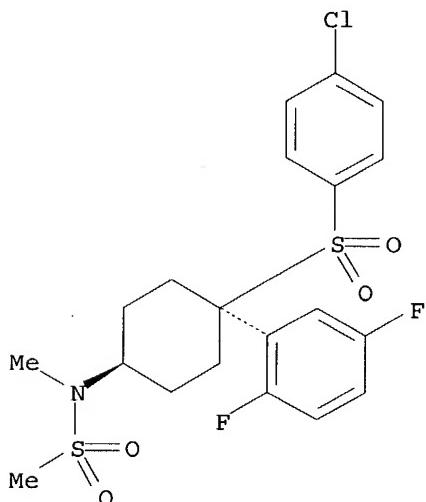
Relative stereochemistry.



RN 677772-85-9 CAPLUS

CN Methanesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-N-methyl- (9CI) (CA INDEX NAME)

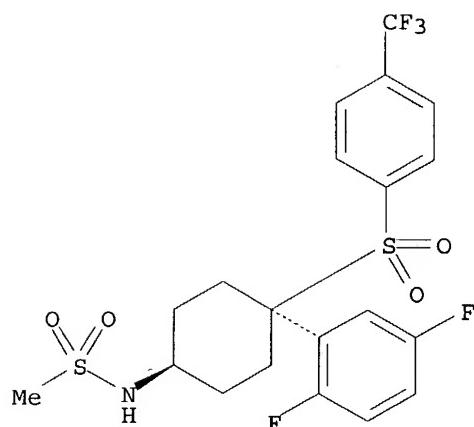
Relative stereochemistry.



RN 677772-86-0 CAPLUS

CN Methanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

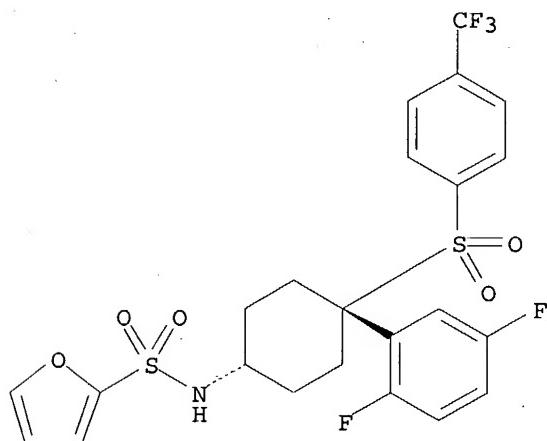
Relative stereochemistry.



RN 677772-87-1 CAPLUS

CN 2-Furansulfonamide, N-[*cis*-4-(2,5-difluorophenyl)-4-[(4-(trifluoromethyl)phenyl)sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

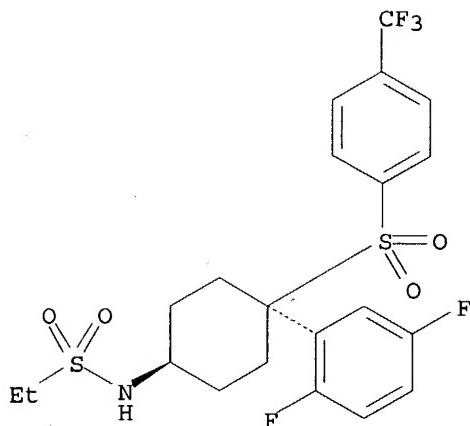
Relative stereochemistry.



RN 677772-88-2 CAPLUS

CN Ethanesulfonamide, N-[*cis*-4-(2,5-difluorophenyl)-4-[(4-(trifluoromethyl)phenyl)sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

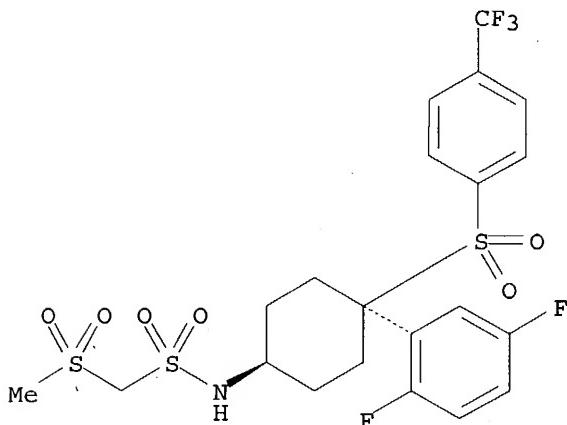
Relative stereochemistry.



RN 677772-89-3 CAPLUS

CN Methanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[(4-(trifluoromethyl)phenyl)sulfonyl]cyclohexyl]-1-(methylsulfonyl)- (9CI)
(CA INDEX NAME)

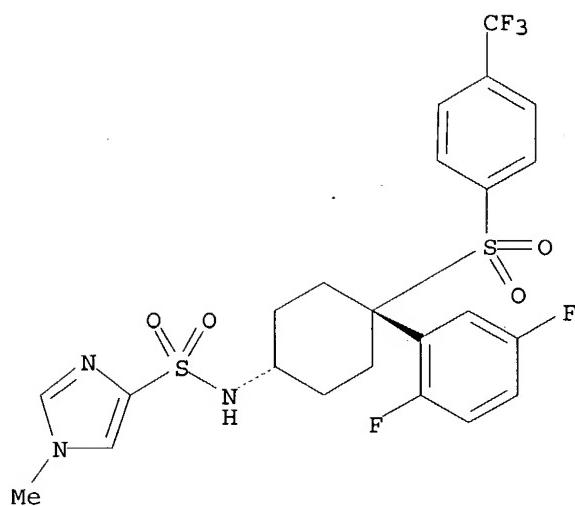
Relative stereochemistry.



RN 677772-90-6 CAPLUS

CN 1H-Imidazole-4-sulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[(4-(trifluoromethyl)phenyl)sulfonyl]cyclohexyl]-1-methyl- (9CI)
(CA INDEX NAME)

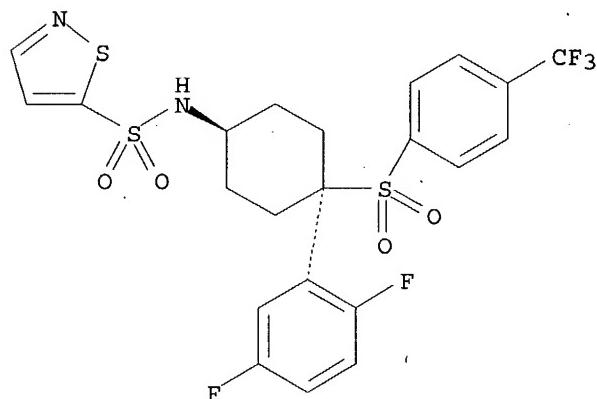
Relative stereochemistry.



RN 677772-91-7 CAPLUS

CN 5-Isothiazolesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[(4-(trifluoromethyl)phenyl)sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

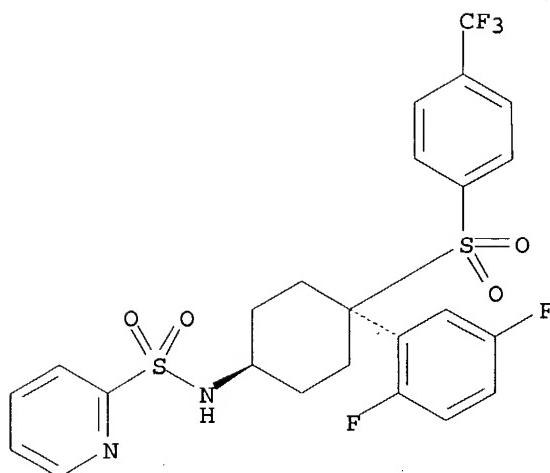
Relative stereochemistry.



RN 677772-92-8 CAPLUS

CN 2-Pyridinesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[(4-(trifluoromethyl)phenyl)sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

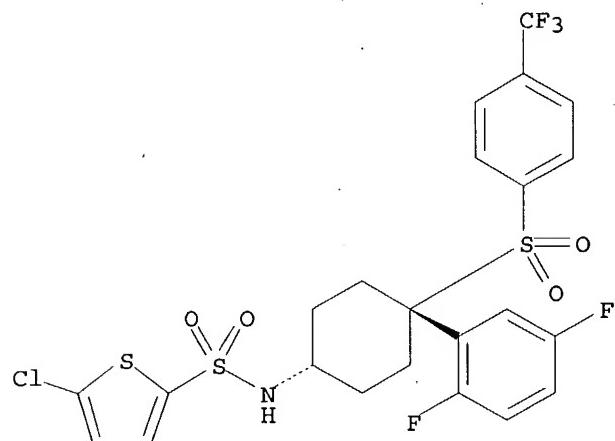
Relative stereochemistry.



RN 677772-93-9 CAPLUS

CN 2-Thiophenesulfonamide, 5-chloro-N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

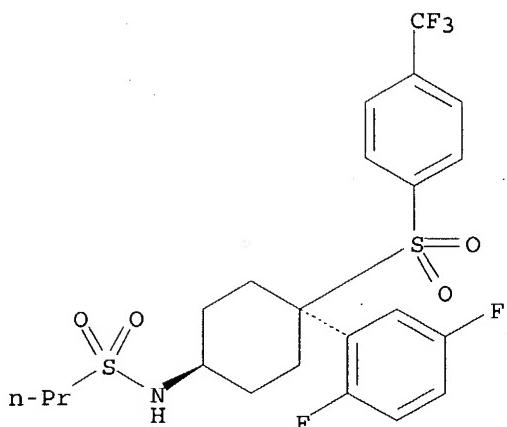
Relative stereochemistry.



RN 677772-94-0 CAPLUS

CN 1-Propanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

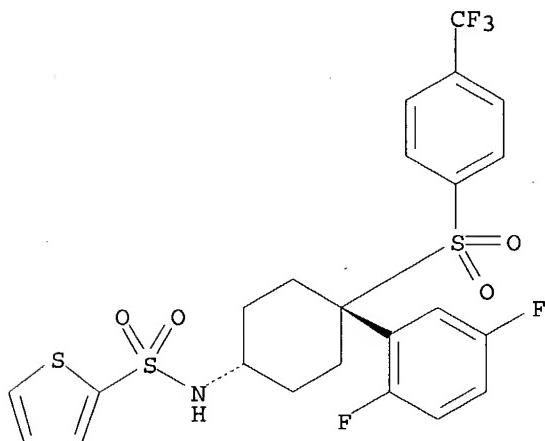
Relative stereochemistry.



RN 677772-95-1 CAPLUS

CN 2-Thiophenesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[(4-(trifluoromethyl)phenyl)sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

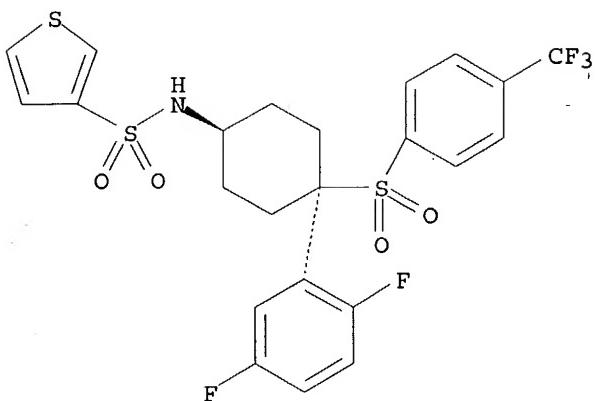
Relative stereochemistry.



RN 677772-97-3 CAPLUS

CN 3-Thiophenesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[(4-(trifluoromethyl)phenyl)sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

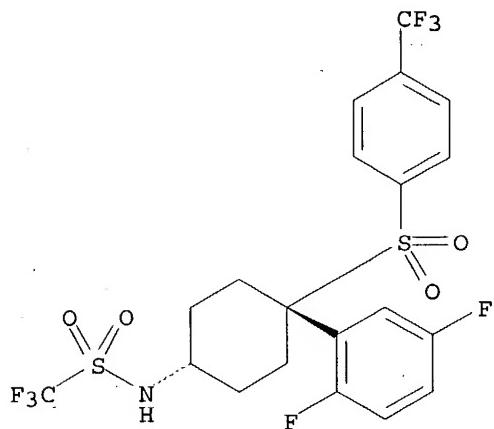
Relative stereochemistry.



RN 677772-99-5 CAPLUS

CN Methanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]-1,1,1-trifluoro- (9CI) (CA INDEX NAME)

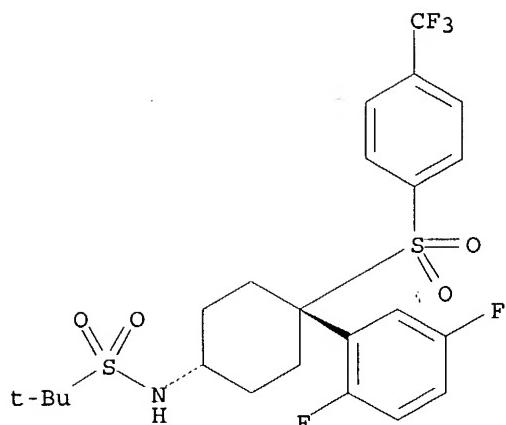
Relative stereochemistry.



RN 677773-02-3 CAPLUS

CN 2-Propanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]-2-methyl- (9CI) (CA INDEX NAME)

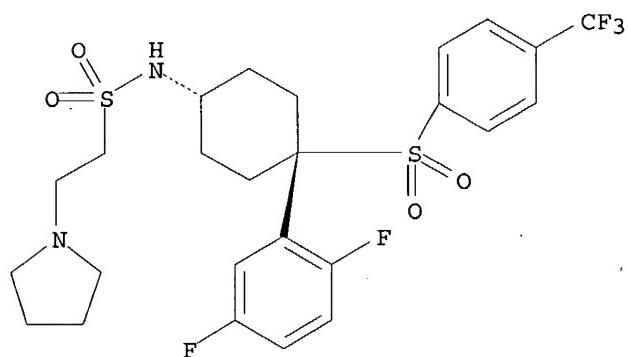
Relative stereochemistry.



RN 677773-03-4 CAPLUS

CN 1-Pyrrolidineethanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[(4-trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

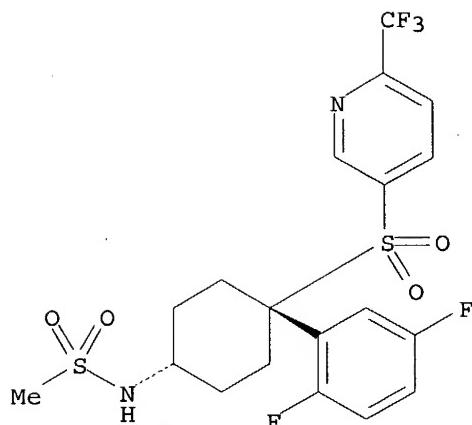
Relative stereochemistry.



RN 677773-04-5 CAPLUS

CN Methanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

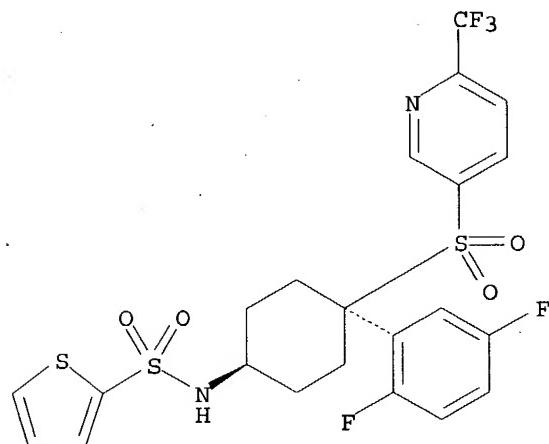
Relative stereochemistry.



RN 677773-05-6 CAPLUS

CN 2-Thiophenesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

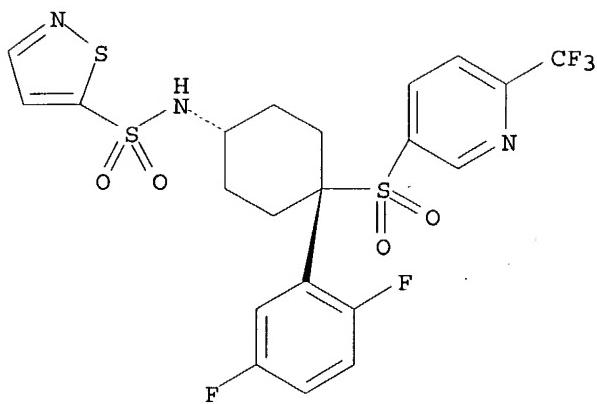
Relative stereochemistry.



RN 677773-06-7 CAPLUS

CN 5-Iothiazolesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

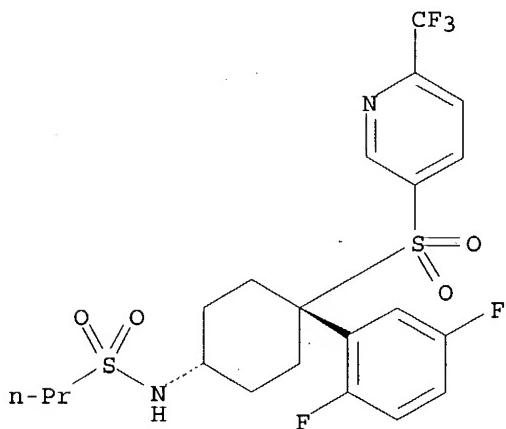
Relative stereochemistry.



RN 677773-07-8 CAPLUS

CN 1-Propanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

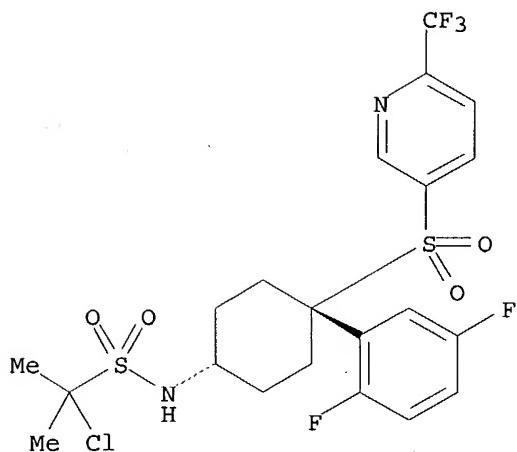
Relative stereochemistry.



RN 677773-08-9 CAPLUS

CN 2-Propanesulfonamide, 2-chloro-N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

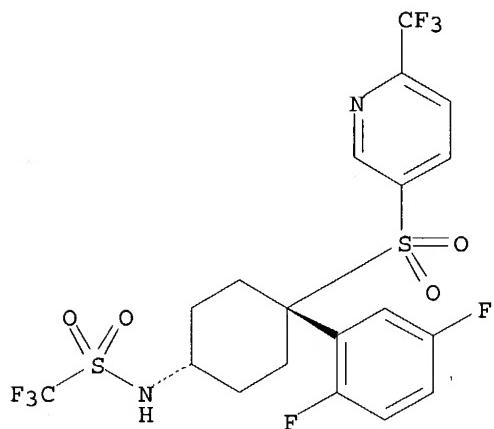
Relative stereochemistry.



RN 677773-09-0 CAPLUS

CN Methanesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]-1,1,1-trifluoro- (9CI) (CA INDEX NAME)

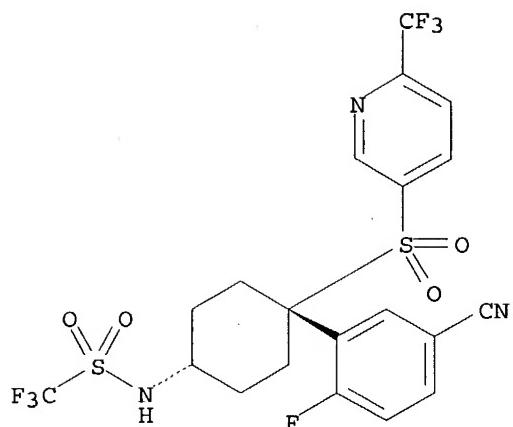
Relative stereochemistry.



RN 677773-11-4 CAPLUS

CN Methanesulfonamide, N-[cis-4-(5-cyano-2-fluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]-1,1,1-trifluoro- (9CI) (CA INDEX NAME)

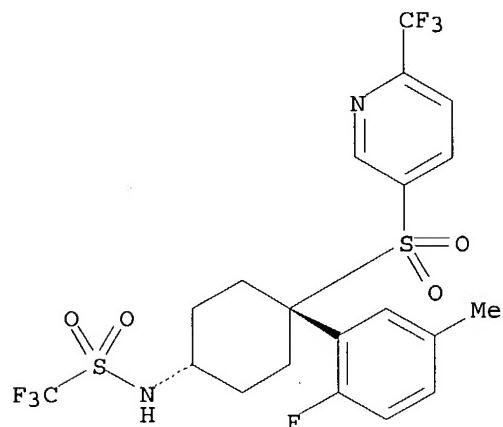
Relative stereochemistry.



RN 677773-12-5 CAPLUS

CN Methanesulfonamide, 1,1,1-trifluoro-N-[cis-4-(2-fluoro-5-methylphenyl)-4-[(6-(trifluoromethyl)-3-pyridinyl)sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

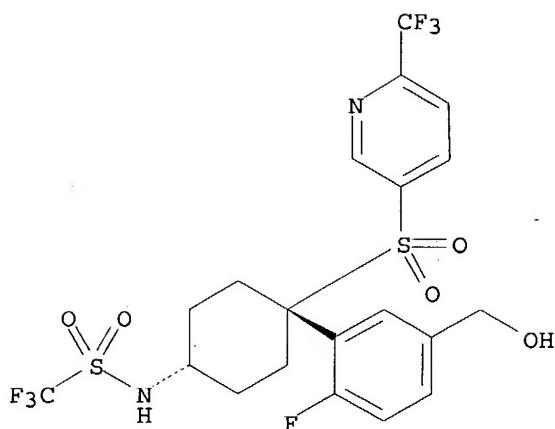
Relative stereochemistry.



RN 677773-13-6 CAPLUS

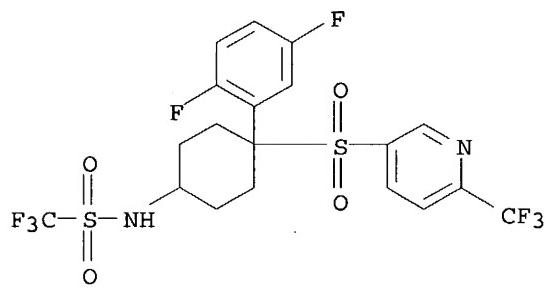
CN Methanesulfonamide, 1,1,1-trifluoro-N-[cis-4-[2-fluoro-5-(hydroxymethyl)phenyl]-4-[(6-(trifluoromethyl)-3-pyridinyl)sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

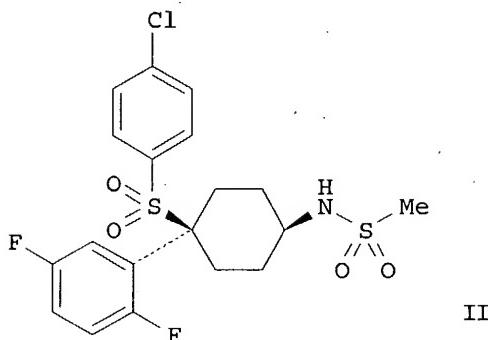
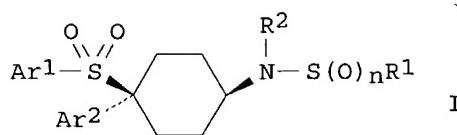


RN 677773-14-7 CAPLUS

CN Methanesulfonamide, N-[4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]-1,1,1-trifluoro- (9CI) (CA INDEX NAME)



GI



AB Title compds. I [wherein n = 1 or 2; R1 = CF₃, aryl(alkyl), heterocyclyl(alkyl), or (un)substituted alkyl, alkenyl, cycloalkyl(alkyl); R2 = H or alkyl; R3 = H, alkyl, Ph, or heteroaryl; R4 = alkyl, Ph, or heteroaryl; R5 = H or alkyl; or N(R5)₂ = azetidinyl, pyrrolidinyl, piperidinyl, morpholinyl, or (1,1-dioxido)thiomorpholinyl; Ar1 and Ar2 = independently (un)substituted Ph or heteroaryl; or pharmaceutically acceptable salts thereof] were prepared as inhibitors of the processing of amyloid precursor protein (APP) by γ -secretase. For example, reduction of 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexanone to the alc., followed by mesylation, conversion to the azide, and reduction gave 4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexylamine. Reaction of the amine with MesO₂Cl using TEA in CH₂C₁₂ provided the sulfonamide II. Compds. of the invention inhibited β -amyloid formation in SH-SY5Y cells stably over-expressing a β APP C-terminal fragment with ED₅₀ values <0.5 μ M, and in most cases <100 nM. Thus, I and their pharmaceutical compns. are useful in treating or preventing Alzheimer's disease or other condition associated with the deposition of β -amyloid (no data).

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:308409 CAPLUS

DOCUMENT NUMBER: 140:321108

TITLE: Preparation of aryl cyclohexyl sulfones as γ -secretase inhibitors useful against Alzheimer's disease

INVENTOR(S): Churcher, Ian; Harrison, Timothy; Kerrad, Sonia; Oakley, Paul Joseph; Shaw, Duncan Edward; Teall, Martin Richard; Williams, Susannah

PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK

SOURCE: PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004031137	A1	20040415	WO 2003-GB4102	20030925
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004122050	A1	20040624	US 2003-679557	20031006

PRIORITY APPLN. INFO.: MARPAT 140:321108
GB 2002-23039 A 20021004

OTHER SOURCE(S): MARPAT 140:321108

IT 679432-96-3P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[[(R)-3-[(tert-butoxy)carbonyl]pyrrolidin-1-yl]sulfonyl]amino]cyclohexane 679433-00-2P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[[(3-hydroxyazetidin-1-yl)sulfonyl]amino]cyclohexane

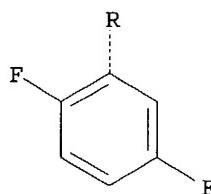
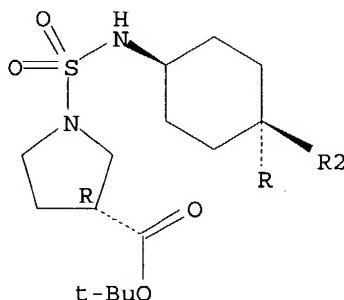
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate; preparation of aryl cyclohexyl sulfones as γ -secretase inhibitors useful against Alzheimer's disease)

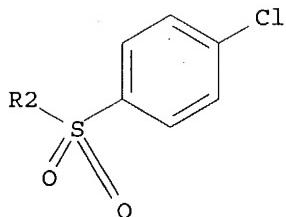
RN 679432-96-3 CAPLUS

CN 3-Pyrrolidinecarboxylic acid, 1-[[[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]amino]sulfonyl]-, 1,1-dimethylethyl ester, (3R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

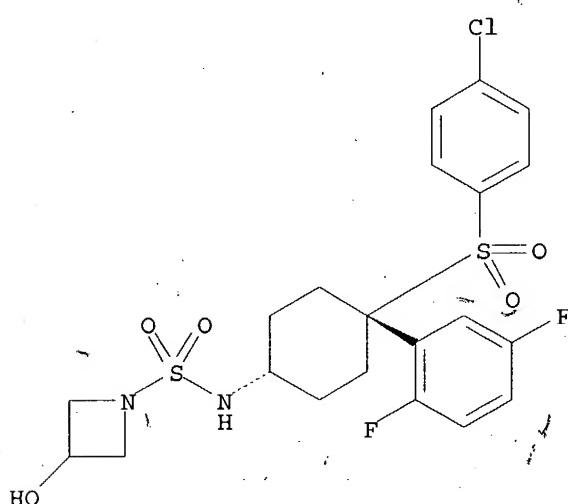




RN 679433-00-2 CAPLUS

CN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-hydroxy- (9CI) (CA INDEX NAME)

Relative stereochemistry.



- IT 679432-91-8P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[pyrrolidin-1-yl]sulfonyl]amino]cyclohexane
 679432-92-9P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[azetidin-1-yl]sulfonyl]amino]cyclohexane
 679432-93-0P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[3,3-difluoroazetidin-1-yl]sulfonyl]amino]cyclohexane
 679432-94-1P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[4-trifluoromethylpiperidin-1-yl]sulfonyl]amino]cyclohexane 679432-95-2P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[morpholin-4-yl]sulfonyl]amino]cyclohexane 679432-97-4P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[((R)-3-hydroxypyrrolidin-1-yl)sulfonyl]amino]cyclohexane 679432-98-5P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[3-oxopyrrolidin-1-yl]sulfonyl]amino]cyclohexane 679432-99-6P
 679433-01-3P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[3-hydroxy-3-methylazetidin-1-yl]sulfonyl]amino]cyclohexane 679433-02-4P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[3-(dimethylamino)azetidin-1-yl]sulfonyl]amino]cyclohexane

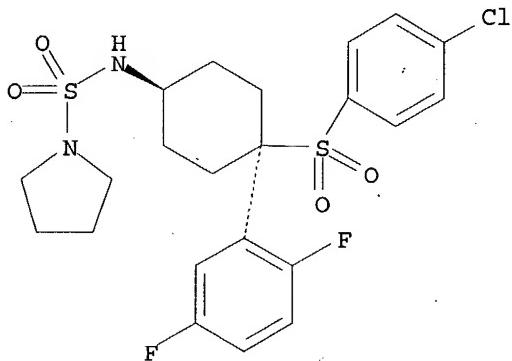
679433-12-6P, Pyrrolidine-1-sulfonic acid [cis-4-(2,5-difluorophenyl)-4-(4-trifluoromethylbenzenesulfonyl)cyclohexyl]amide
679433-14-8P, Pyrrolidine-1-sulfonic acid [cis-4-(2,5-difluorophenyl)-4-(6-trifluoromethylpyridyl-3-sulfonyl)cyclohexyl]amide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of aryl cyclohexyl sulfones as γ -secretase inhibitors useful against Alzheimer's disease)

RN 679432-91-8 CAPLUS

CN 1-Pyrrolidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

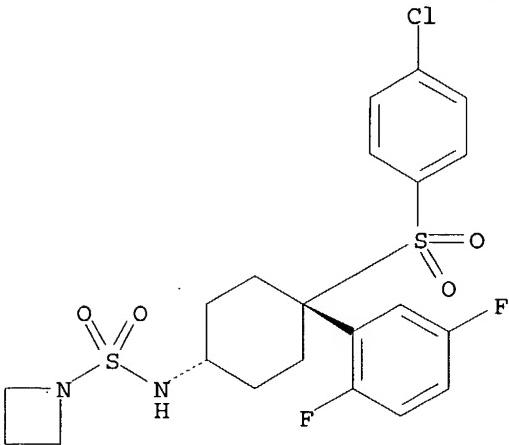
Relative stereochemistry.



RN 679432-92-9 CAPLUS

CN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

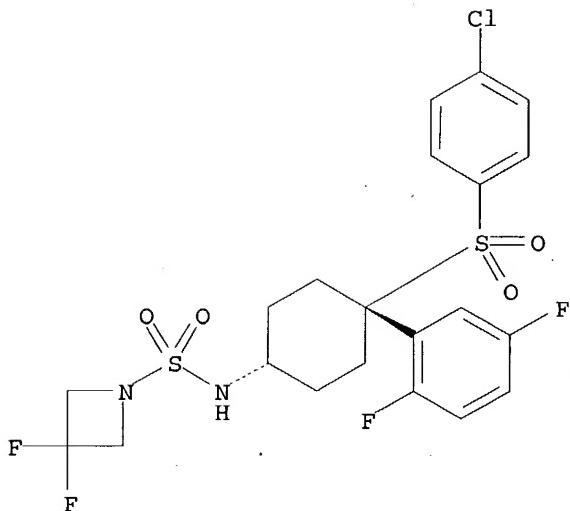
Relative stereochemistry.



RN 679432-93-0 CAPLUS

CN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3,3-difluoro- (9CI) (CA INDEX NAME)

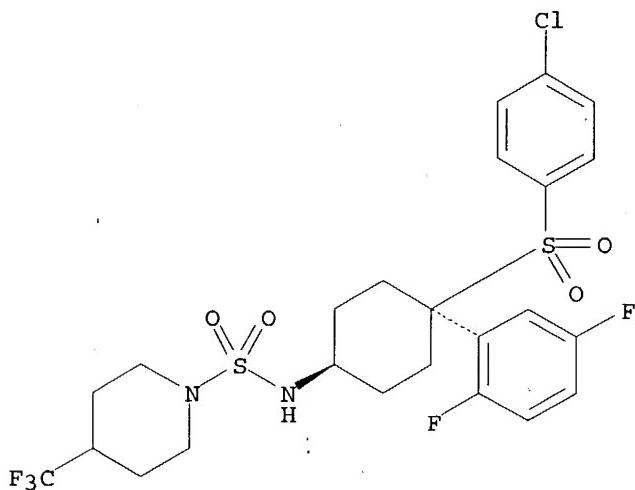
Relative stereochemistry.



RN 679432-94-1 CAPLUS

CN 1-Piperidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

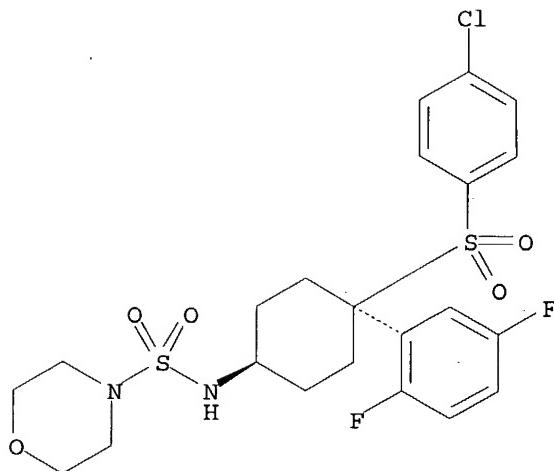
Relative stereochemistry.



RN 679432-95-2 CAPLUS

CN 4-Morpholinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]- (9CI) (CA INDEX NAME)

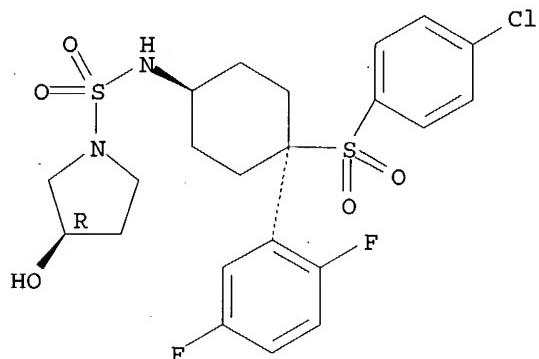
Relative stereochemistry.



RN 679432-97-4 CAPLUS

CN 1-Pyrrolidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-hydroxy-, (3R)- (9CI) (CA INDEX NAME)

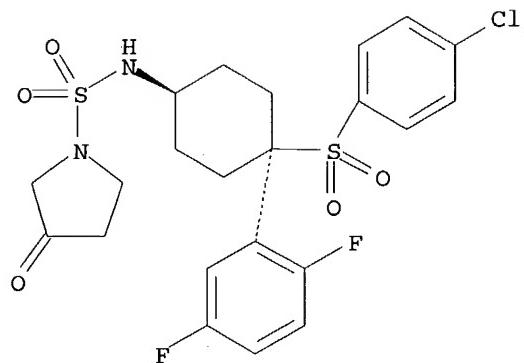
Absolute stereochemistry.



RN 679432-98-5 CAPLUS

CN 1-Pyrrolidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-oxo- (9CI) (CA INDEX NAME)

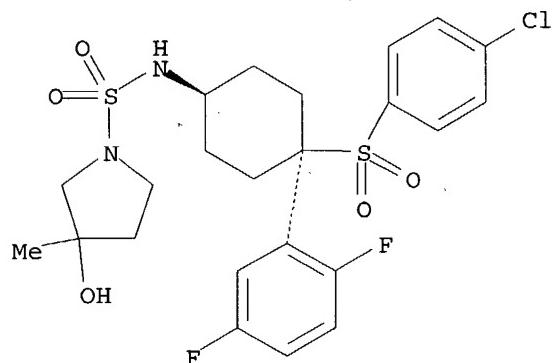
Relative stereochemistry.



RN 679432-99-6 CAPLUS

CN 1-Pyrrolidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-hydroxy-3-methyl- (9CI) (CA INDEX NAME)

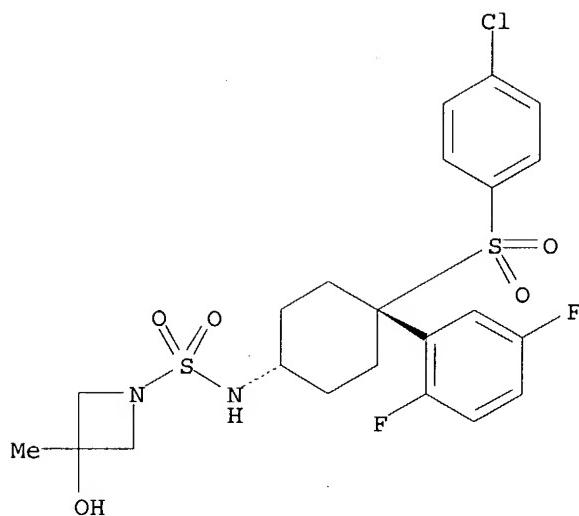
Relative stereochemistry.



RN 679433-01-3 CAPLUS

CN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-hydroxy-3-methyl- (9CI) (CA INDEX NAME)

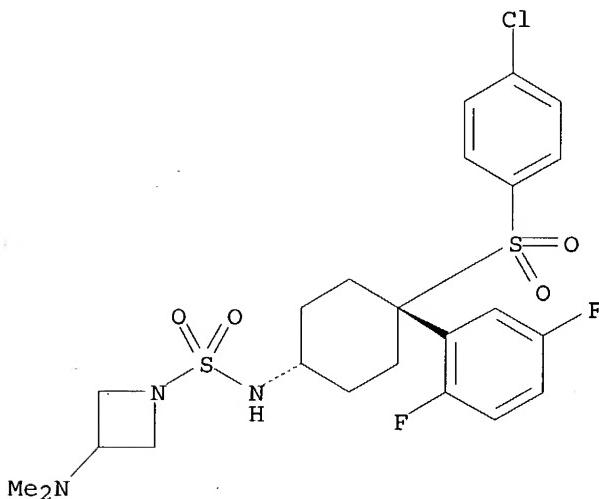
Relative stereochemistry.



RN 679433-02-4 CAPLUS

CN 1-Azetidinesulfonamide, N-[cis-4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)cyclohexyl]-3-(dimethylamino)- (9CI) (CA INDEX NAME)

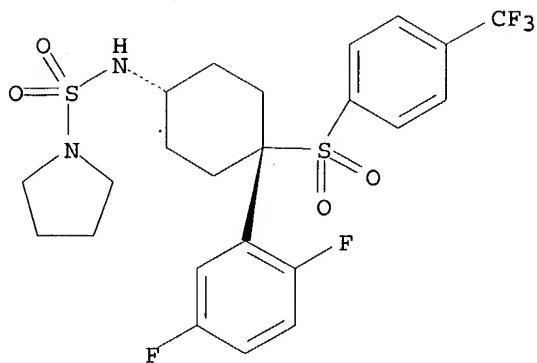
Relative stereochemistry.



RN 679433-12-6 CAPLUS

CN 1-Pyrrolidinesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[4-(trifluoromethyl)phenyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

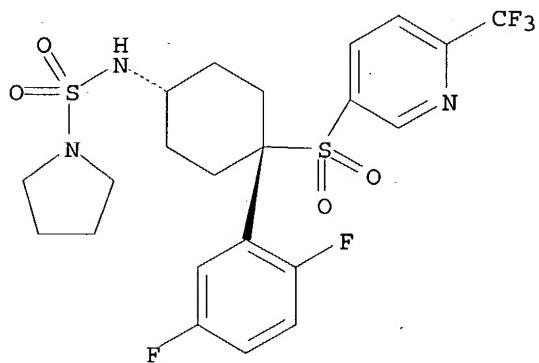
Relative stereochemistry.



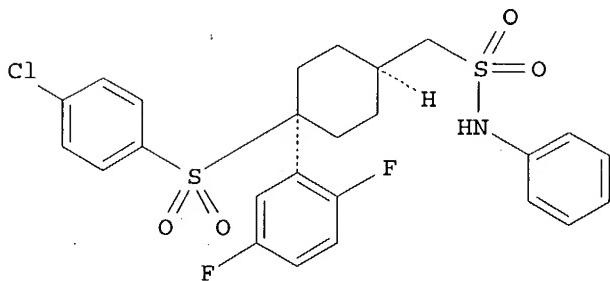
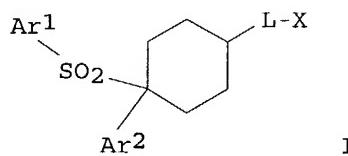
RN 679433-14-8 CAPLUS

CN 1-Pyrrolidinesulfonamide, N-[cis-4-(2,5-difluorophenyl)-4-[[6-(trifluoromethyl)-3-pyridinyl]sulfonyl]cyclohexyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



GI



AB Aryl cyclohexyl sulfones (shown as I; variables defined below; e.g. II) inhibit the processing of APP by γ -secretase, and hence are useful in treatment of Alzheimer's disease. For I: X = SCN, SR1, S(O)R1, (CRaRb)mSO2R1, SO2N(R2)2, SO2NHCOR1, SO2NHN(R2)2, OSO2N(R2)2, OS(O)N(R2)2, OSO2NHCOR1, COR4, NHCOR1, NHCO2R1, NHCON(R2)2, NHSO2R1 or NSO2N(R2)2; L = a bond, :CH- or -(CHRa)n- with provisos; n = 1-3; Ar1 and Ar2 = Ph or heteroaryl, either of which bears 0-3 halogen, CN, NO2, CF3, CHF2, OH, OCF3, CHO, CH:NOH, C1-4-alkoxy, C1-4-alkoxycarbonyl, C2-6-acyl, C2-6-alkenyl, and C1-4-alkyl; Ra = H, alkyl; Rb = H, alkyl, CO2H, alkoxy carbonyl, alkylsulfonyl; R1 = CF3, (substituted) alkyl, alkenyl, cycloalkyl, cycloalkylalkyl, aryl(alkyl), heterocyclyl(alkyl); R2 = H, (substituted) alkoxy, alkyl, alkenyl, cycloalkyl, cycloalkylalkyl; R3 = H, alkyl, Ph, heteroaryl; R4 = CRaRbSO2R1, pyridine N-oxide, substituted Ph, heteroaryl; addnl. details are given in the claims. Although the methods of preparation are not claimed, example preps. and/or characterization data are included for <180 examples of I and some intermediates. For example, II was prepared from excess aniline and [cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methanesulfonyl chloride, which was prepared from SO2Cl2, KNO3 and [cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methanethiol, which was prepared from in 2 steps from iodo[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methane, which was prepared photochem. from [cis-4-(4-Chlorophenylsulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]acetic acid, iodoisobenzene diacetate and I2. The examples all had an ED50 against γ -secretase of <1 μ M, typically <0.5 μ M, in most cases <100 nM, and in preferred cases <10 nM.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:27:37 ON 09 NOV 2004)

FILE 'REGISTRY' ENTERED AT 14:27:47 ON 09 NOV 2004

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L2	4 S L1
L3	STRUCTURE UPLOADED
L4	4 S L3
L5	90 S L3 FUL

FILE 'CAPLUS' ENTERED AT 14:31:39 ON 09 NOV 2004

L6	2 S L5
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.40	168.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.40	-1.40

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